

Amendments to the Specification:

Kindly add to page 6 the following text:

It will be seen that the conductive metallic soil penetrating electrode is useful for making an electrical connection with soil for the purpose of measuring soil electrical parameters, and comprises:

- a) said electrode having an axially longitudinally elongated body defining first and second integral sections, the first section having ground engaging slim taper along the majority of its length, the second section being substantially cylindrical along the majority of its length,
- b) said first section having a primary end defining a tip, and a secondary end forming a shoulder which extends outwardly away from a junction defined by said section,
- c) said first section at said junction having an overall cross dimension which exceeds the diameter of said second section proximate the junction, the ratio of said overall cross dimension to said second section diameter being about 4/3,

- d) said electrode configured to receive radio frequency energy at said second section,
- e) said tip being blunted to define a flat end and a shallowly tapered periphery, and having a diameter of about 3/16 inch.